

ABSTRACT

To obtain a micromachine for use as a high frequency filter having a high Q value and a higher frequency band.

In a micromachine (20) including: an input electrode (7b), an output electrode (7a), and a support electrode (7c) disposed on a substrate (4); and a band-shaped vibrator electrode (15) formed by laying a beam (vibrating part) (16) over the output electrode (7a) with a space part (A) interposed between the output electrode (7a) and the vibrator electrode (15) in a state in which both end parts of the vibrator electrode (15) are supported on the input electrode (7b) and the substrate (4) with the support electrode (7c) interposed between the substrate (4) and the vibrator electrode (15), the entire surface of both end parts of the vibrator electrode (15) from an edge of the end parts to the beam (16) is completely fixed to the input electrode (7b) and the support electrode (7c).